

# PATENT ABSTRACTS OF JAPAN

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## (54) FINISHING COSMETIC COMPOUNDED WITH SOLID SILICONE

### (57)Abstract:

PURPOSE: To provide a finishing cosmetic such as a lip stick or a foundation excellent in the life of the cosmetic even after coated and used, and free from stickiness and oily touch.

CONSTITUTION: The cosmetic is characterized by compounding 1-30wt.% of an alkylsiloxy silicate component of solid silicone having a structure of  $(R_3 Si)_2 O \cdot n SiO_2$  [R.: alkyl; alkyl is methyl (CH<sub>3</sub>) and/or ethyl (C<sub>2</sub>H<sub>5</sub>.); (n) is 1-5], and 1-60wt.% of a low viscous silicone oil component having a viscosity of  $\leq 10$ cs(at 25°C) or 0-40wt.% of a silicone oil and/or an oil agent except the low viscous silicone oil, in addition to ordinary components used for the production of the finishing cosmetic.

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**CLAIMS**

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**[Claim(s)]**

[Claim 1] (a) a [ to which the following structure expression is given ] Reach (b).

(a) Solid-state silicone combination finish cosmetics characterized by the alkyl siloxy silicate (b) viscosity which is solid-state silicone containing the 1 - (b) component for the (a) component one to 60% of the weight 30% of the weight by the hypoviscosity silicone oil below 10cs(es) (25degreeC). Structure-expression (R3Si) 2 O-nSiO2 of (a) R-: Alkyl group. [Claim 2] They are the solid-state silicone combination finish cosmetics of the claim whose n the alkyl group of an alkyl siloxy silicate consists of a methyl group (CH3-) and/or an ethyl group (C2H5-), and is 1-5 given in the 1st term. [Claim 3] the [ the 1st term of the claim whose silicone oils and/or oily medicines other than a hypoviscosity silicone oil are 0 - 40 % of the weight, or ] -- solid-state silicone combination finish cosmetics given in 2 terms

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[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the solid-state silicone combination finish cosmetics which are excellent after application use and in makeup rice cake in the finish cosmetics which the alkyl siloxy silicate which is solid-state silicone, and viscosity made contain combining the hypoviscosity silicone oil below a specific value, and have neither stickiness nor oiliness in more detail about solid-state silicone combination finish cosmetics.

[0002]

[Description of the Prior Art] Conventionally, as for finish cosmetics, what mainly consists of the coloring agent, a solid preparation and an oily medicine of a paste - a liquid, and/or a moisturizer is well-known. With the lip stick which is the most typical product of finish cosmetics, they are \*\*\*\*\* (cosmetics raw material criteria), such as a carnauba wax, a candelilla low, yellow bees wax, solid paraffin, a ceresin, a micro crystalline wax, a polyethylene wax, glycerol straight chain fatty acid ester, and ethylene glycol straight chain fatty acid ester, to a solid preparation. To the component and oily medicine which are prescribed by \*\*\*\*\* (component specification outside cosmetics raw material criteria) etc., a castor bean oil, Olive oil, a jojoba oil, a macadamia-nuts oil, a mink oil, squalane, \*\*\*\*\* such as liquefied lanolin and acetic-acid lanolin, vaseline, and various synthetic ester, To the component and coloring agent which are prescribed by \*\*\*\*\* etc., (1) of red No. 3 and red No. 104, Red No. 105 (1), red No. 106, red No. 201, red No. 202, Red No. 205, red No. 206, red No. 207, red No. 218, red No. 223, Lakes, such as certified colors, such as (1) and blue No. 1 of red No. 230, yellow No. 4, and yellow No. 5, and aluminum of those, and barium, It is used as a constituent component with the well-known component prescribed by \*\*\*\*\* such as titanium oxide, red ochre, a yellow iron oxide, carbon black, KONJOU, a mica, a sericite, nylon, and mica titanium, \*\*\*\*\* etc.

[0003] With the oily foundation which is the typical product of finishing cosmetics, to a solid preparation, moreover, an ozokerite, Solid paraffin, a ceresin, a micro crystalline wax, a polyethylene wax, \*\*\*\*\* such as glycerol straight chain fatty acid ester and ethylene glycol straight chain fatty acid ester, To the component and oily medicine which are prescribed by \*\*\*\*\* etc., liquefied paraffin, a silicone oil, Olive oil, a jojoba oil, a macadamia-nuts oil, a mink oil, squalane, \*\*\*\*\* such as liquefied lanolin and acetic-acid lanolin, vaseline, and various synthetic ester, To the component and pan which are prescribed by \*\*\*\*\* etc., as a moisturizer A propylene glycol, the component and coloring agent which are prescribed by \*\*\*\*\* such as a glycerol and a butylene glycol, \*\*\*\*\* etc. -- (1) of red No. 106, red No. 201, red No. 202, red No. 205, red No. 206, red No. 207, red No. 226, red No. 228, and red No. 230 It is used as a constituent component with the well-known component prescribed by \*\*\*\*\* such as lakes, such as certified colors, such as blue No. 1, blue No. 204, yellow No. 4, yellow No. 5, and yellow No. 205, and aluminum of those, and barium, titanium oxide, red ochre, a yellow iron oxide, carbon black, KONJOU, talc, a kaolin, a mica, a sericite, nylon, mica titanium, and a zirconium oxide, \*\*\*\*\* etc.

[0004]

[Problem(s) to be Solved by the Invention] However, when the lip stick which is typical finish cosmetics was manufactured combining the coloring agent, solid preparation, and oily medicine which are used conventionally [ these ] and a lip was contacted in a lip after application use at the skin or tableware, lip stick part or most on a lip adhered to the skin or tableware, and the makeup effect was spoiled. Moreover, when foundation was manufactured combining the coloring agent currently used conventionally, a solid preparation, an oily medicine, and/or a moisturizer and face \*\*\*\* was contacted in face \*\*\*\* after application use at the skin or clothing, the great portion of the great portion of [ a part or ] on face \*\*\*\* adhered to the skin or clothing, and makeup was spoiled. For this reason, development of the finish cosmetics which are excellent after application use and in makeup rice cake in these finish cosmetics, and have neither stickiness nor oiliness was desired.

[0005]

[Means for Solving the Problem] However, in view of the actual condition, wholeheartedly, by making a part of solid preparation of finish cosmetics contain combining a hypoviscosity silicone oil in some or all of an alkyl siloxy silicate and an oily medicine, this invention persons found out that the finish cosmetics which are excellent in makeup rice cake, and have neither stickiness nor oiliness were obtained, and resulted in this invention as a result of research. (a) That is, this invention reaches (b). (a) Offer the finish cosmetics characterized by the alkyl siloxy silicate (b) viscosity which is solid-state silicone containing the 1 - (b) component for the (a) component one to 60% of the weight 30% of the weight by the hypoviscosity silicone oil below 10cs(es) (25degreeC).

[0006] In the alkyl siloxy silicate of (a) used for this invention, under a room temperature, the alkyl group of R- consists of a methyl group (CH3-) and/or an ethyl group (C2H5-) at trialkyl siloxy silicate (R3Si) O-nSiO2 by usually almost white fine particles or massive at a solid state, and n is 1-5. As for n, the viscosity of (b) is [ the hypoviscosity silicone oil of n below 10cs(es) (25degreeC) ] the chain-like polymerization object of 1-12 at Methyopolysiloxane [(CH3)2SiO] n in annular polymerization object [ of 3-6 ], and/or methyopolysiloxane (CH3) 3SiO-[(CH3)2SiO] n-OSi (CH3)3. It is preferably blended three to 15% of the weight still more preferably one to 30% of the weight during [ all ] composition, and the alkyl siloxy silicate which is solid-state silicone is a book at less than 1 % of the weight.

[0007] For the hypoviscosity silicone oil of 10 or less cses, it is preferably blended ten to 45% of the weight still more preferably one to 60% of the weight during [ all ] composition, and viscosity is a book at less than 1 % of the weight. The effect of this invention is not acquired equally to having blended the silicone oil and/or the oily medicine, and a hypoviscosity silicone oil is not desirable, if the following [ 10cs(es) (25degreeC) ] are [ viscosity ] desirable and viscosity exceeds 10cs(es) (25degreeC).

Preferably, zero to 40% of the weight, the silicone oils and/or oily medicines other than a hypoviscosity silicone oil are a book, when it is blended zero to 25% of the weight still more preferably and 40 % of the weight is exceeded.

[0008] The usual component used for the solid silicone combination cosmetics of this invention aimed at obtaining [ other than the aforementioned indispensable component ] the charge of makeup, As solid preparations other than the above, for example, a carnauba wax, a candelilla low, Yellow bees wax, an ozokerite, solid paraffin, a ceresin, a micro crystalline wax, \*\*\*\*\*, such as a polyethylene wax, glycerol straight chain fatty acid ester, and ethylene glycol straight chain fatty acid ester, The component of which the component and/or cosmetics which are prescribed by \*\*\*\*\* etc. are allowed use, To an oily medicine, liquefied paraffin, a silicone oil, the castor oil, olive oil, a jojoba oil, Macadamia-nuts oil, mink oil, squalane, liquefied lanolin, and acetic-acid lanolin, The component of which the component and/or cosmetics which are prescribed by \*\*\*\*\* such as vaseline and various synthetic ester, \*\*\*\*\* etc. are allowed use, As a moisturizer, \*\*\*\*\* such as a propylene glycol, a glycerol, and a butylene glycol, The component of which the component and/or cosmetics which are prescribed by \*\*\*\*\* etc. are allowed use, To a coloring agent, (1) and red No. 105 (1) of red No. 3 and red No. 104, red No. 106, Red No. 201, red No. 202, red No. 205, red No. 206, red No. 207, (1) of red No. 218, red No. 223, red No. 226, red No. 228, and red No. 230, Lakes, such as certified colors, such as blue No. 1, blue No. 204, yellow No. 4, yellow No. 5, and yellow No. 205, and aluminum of those, and barium, Titanium oxide, red ocher, a yellow iron oxide, carbon black, KONJOU, \*\*\*\*\* such as talc, a kaolin, a mica, a sericite,

nylon, mica titanium, and a zirconium oxide. The component allowed use can be suitably chosen as the component and/or cosmetics which are prescribed by \*\*\*\*\*, such as the component of which the component and/or cosmetics which are prescribed by \*\*\*\*\* etc. are allowed use and a resin, a cosmetics component, perfume, an antioxidant, antiseptics, and an ultraviolet ray absorbent, \*\*\*\*\* etc., and can be blended with them. The solid silicone combination cosmetics of this invention can be manufactured according to the usual method, and can be applied as a lip stick, a lip cream, foundation, rouge, eye shadow, an eye blow, etc.

[0009]

[Example] Next, although an example is given and this invention is explained, this invention is not limited to these examples.

実施例 1 (口紅)

成分名 (重量%)	本発明品 1	比較品 1
(1) トリメチルシロキシシリケート	10.0	-
(2) オクタメチルシクロテトラシロキサン(2.3cs)	40.0	-
(3) キャンデリラロウ	-	10.0
(4) コハク酸ジオクチル	-	40.0
(5) トリベヘン酸グリセリル	5.0	5.0
(6) マイクロクリスタリンワックス	10.0	10.0
(7) カルナウバワックス	2.0	2.0
(8) ミリスチン酸イソプロピル	8.0	8.0
(9) ジイソステアリン酸ジグリセリル	5.0	5.0
(10) リンゴ酸ジイソステアリル	7.0	7.0
(11) 着色顔料 (法定色素類)	12.0	12.0
(12) 酸化防止剤	0.1	0.1
(13) 香料	0.9	0.9
合計	100.0	100.0

(Process)

- (1) is dissolved in (2).
- The mixed dissolution of (3) - (9) is carried out by 100 - 120 degreeC.
- (10) and (11) are kneaded by 3 roll mills.
- Add a, c and (12), and (13) to b, by 80 - 95 degreeC, carry out stirring mixture and make it uniform.
- Slush d into a container, and it is filled up with it, and cool.

[0010]

## 実施例 2 (ファンデーション)

成分名 (重量%)	本発明品 2	比較品 2
(1) トリメチルシロキシシリケート	4.0	4.0
(2) メチルポリシロキサン(2.0cs)	15.0	-
(3) スクワラン	-	15.0
(4) イソノナン酸イソノニル	14.0	14.0
(5) マイクロクリスタリンワックス	10.0	10.0
(6) 1,3-ブチレングリコール	3.0	3.5
(7) 酸化チタン	12.0	12.0
(8) セリサイト	15.0	15.0
(9) タルク	12.0	12.0
(10) ナイロンパウダー	10.0	10.0
(11) 着色顔料 (ベンガラ類)	4.4	4.4
<u>(12) 酸化防止剤</u>	<u>0.1</u>	<u>0.1</u>
	100.0	100.0

## (Process)

(7) Preferential grinding of - (11) is carried out.

b Dissolve (1) in (2) and (4).

c Carry out the mixed dissolution of (3) and (5) by 90 - 110 degreeC.

d. Add b, c and (6), and (12) to a, mix by 75 - 90 degreeC, and make it uniform.

e. Slush d into a container, and it is filled up with it, and cool.

## [0011]

[Evaluation] About this invention article 1 and 2 and the comparison article 1 and 2 which were obtained in the examples 1 and 2, it evaluated by performing the use examination by 20 women.

## 実施例 1 口紅

評価項目	本発明品 1 のほうが良い	比較品 1 のほうが良い	差異が わからない
化粧もちが良い	20名	0名	0名
皮膚への付着がない	20名	0名	0名
食器への付着がない	20名	0名	0名
べたつきがない	20名	0名	0名
油っぽさがない	20名	0名	0名

## [0012]

## 実施例2 ファンデーション

評価項目	本発明品2 のほうが良い	比較品2 のほうが良い	差異が わからない
化粧もちが良い	20名	0名	0名
皮膚への付着がない	20名	0名	0名
衣類への付着がない	20名	0名	0名
べたつきがない	20名	0名	0名
油っぽさがない	18名	0名	2名

[0013]  
 [Effect of the Invention] Like the above, the solid silicone combination finish cosmetics of this invention are excellent in the makeup rice cake after application use, and do not have the adhesion to adhesion on the skin, tableware, or clothing, and have neither stickiness nor oiliness, and are very useful.

[Translation done.]